

# Memorandum

To: DISTRICT CONSTRUCTION DIVISION CHIEFS  
RALPH SOMMARIVA, Chief  
Structures Construction

Date: December 17, 1999

File: Construction Program  
Directive CPD 99-3

From: DEPARTMENT OF TRANSPORTATION  
Construction Program  
Mail Station 44

Subject: Testing for Uniform Mixing of Portland Cement Concrete with FlyAsh

## **Background**

The Department's policy requires that all Portland cement concrete will be mixed containing a chemical admixture to mitigate alkali-silica reactive aggregates (ASR). Most frequently, this additive is flyash. Special provisions also require that when a single weigh hopper is used to proportion the cement and flyash that the contractor test the uniformity of the mixing process (ASTM C94).

Testing data collected to-date has shown that the addition of flyash and cement to the mixer from a single weigh hopper does not create a mixing problem.

## **Issue and Resolution**

After the date of this Directive, uniformity testing of concrete mixers will not be required. Contractors on contracts that contain the requirement for uniformity testing have and will bid the cost of testing in their unit cost for the concrete. Consequently, until the special provisions are revised to eliminate the uniformity-testing requirement, the requirement may be eliminated from contracts by a cost saving change order. The estimated labor savings for the eliminated test is \$350 per truck.

If you have any questions regarding this issue, please contact Terrie Bressette at (916) 654-4135.

BRENT FELKER  
Program Manager  
Construction

c: KGriffin, HQ-OE  
JDobrowolski, Construction  
SJarvis, Construction  
Construction Coordinators

Recipient  
Memo Topic  
Date  
Page 2